# **Refine Search**

#### Search Results -

| Terms    | Documents |  |  |
|----------|-----------|--|--|
| L9 or L8 | 56        |  |  |

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database

Database: EPO Abstracts Database

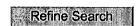
JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

| L10 |   |
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#### **Search History**

DATE: Wednesday, April 14, 2004 Printable Copy Create Case

| Set Name     | Query  | <u>Hit Count</u> | Set Name   |
|--------------|--|------------------|------------|
| side by side |  |                  | result set |
| DB=PGP       | B, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YB | ES; OP=ADJ       |            |
| <u>L10</u>   | L9 or 18                                       | 56               | <u>L10</u> |
| <u>L9</u>    | L7 and terephthalic.ti.                        | 41               | <u>L9</u>  |
| <u>L8</u>    | L7 and carboxylic.ti.                          | 15               | <u>L8</u>  |
| <u>L7</u>    | L6 and py<2002                                 | 137              | <u>L7</u>  |
| <u>L6</u>    | L5 and 562/\$                                  | 137              | <u>L6</u>  |
| <u>L5</u>    | L4 and (filter or centrifuge)                  | 1034             | <u>L5</u>  |
| <u>L4</u>    | L3 and separat\$6                              | 1856             | <u>L4</u>  |
| <u>L3</u>    | L2 and 11                                      | 2267             | <u>L3</u>  |
| <u>L2</u>    | terephthalic acid or carboxylic acid           | 409304           | <u>L2</u>  |
| <u>L1</u>    | terephthalic acid and slurry and b and color   | 2267             | <u>L1</u>  |

#### **END OF SEARCH HISTORY**

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

#### **Search Results -** Record(s) 1 through 10 of 56 returned.

☐ 1. Document ID: US 20020028968 A1

Using default format because multiple data bases are involved.

L10: Entry 1 of 56

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Graham, Derek Alexander Cleveland GB Hamley, Paul Anthony Nottingham GB Ilkenhans, Thomas Cambridge GB Oliver, Raymond Stockton on Tees GB Poliakoff, Martyn Nottingham GB Woodcock, Duncan C. Cheshire GB

US-CL-CURRENT: 562/415

| Full Title Citation | Front Revie   | w Classification                      | Date | Reference | Sequences | Attachments | Claims | KWMC   Drawn De |
|---------------------|---------------|---------------------------------------|------|-----------|-----------|-------------|--------|-----------------|
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|                     | ont ID. LIC A | 310220 D1                             |      |           |           |             |        |                 |
| $\square$ 2. Docume | min. US (     | 13 10237 DI                           |      |           |           |             |        |                 |

US-PAT-NO: 6310239

DOCUMENT-IDENTIFIER: US 6310239 B1

TITLE: Process for manufacturing terephthalic acid

| Full | Title   Citation | Front Review | Classification Date | Reference Sequ | ences Attachments CIa | ims KW | MC Dra | avu. De |
|------|------------------|--------------|---------------------|----------------|-----------------------|--------|--------|---------|
|      | 3. Docume        | nt ID: US 63 | •                   | : USPT         | Oct                   | 23, 2  | 2001   |         |

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid

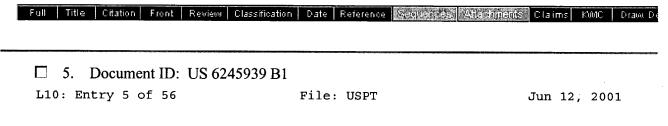
Full Title Citation Front Review Classification Date Reference Sequences Attachner(s) Claims KWC Draw December 4. Document ID: US 6255525 B1
L10: Entry 4 of 56 File: USPT Jul 3, 2001

US-PAT-NO: 6255525

DOCUMENT-IDENTIFIER: US 6255525 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Process for preparing purified carboxylic acids



US-PAT-NO: 6245939

DOCUMENT-IDENTIFIER: US 6245939 B1

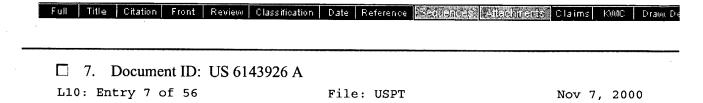
TITLE: Process for producing highly pure aromatic carboxylic acids

|        |           |          |        |        |       |      | Section 1976, Management | 100000000000000000000000000000000000000 | Claims k | OMC Drawe |
|--------|-----------|----------|--------|--------|-------|------|--------------------------|---|----------|-----------|
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|        |           |          |        |        |       |      |                          |   |          |           |
|        |           |          | ·      |        |       |      |                          |   |          |           |
| П 6    | . Docume  | nt ID· 1 | IS 615 | 0553 A |       |      |                          |   |          |           |
| ı U    | . Docume  | in id.   | 00 013 | 0333 A |       |      |                          |   |          |           |
| T.10 · | Entry 6 c | of 56    |        |        | File: | USPT |                          |   | Nov 21,  | 2000      |

US-PAT-NO: 6150553

DOCUMENT-IDENTIFIER: US 6150553 A

TITLE: Method for recovering methyl acetate and residual acetic acid in the production acid of pure terephthalic acid



US-PAT-NO: 6143926

DOCUMENT-IDENTIFIER: US 6143926 A

TITLE: Process for producing pure terephthalic acid with improved recovery of

precursors, solvent and methyl acetate



□ 8. Document ID: US 6124455 A

L10: Entry 8 of 56

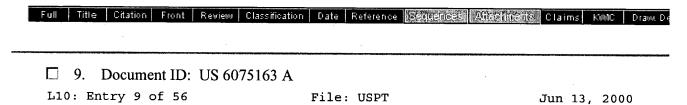
File: USPT

Sep 26, 2000

US-PAT-NO: 6124455

DOCUMENT-IDENTIFIER: US 6124455 A

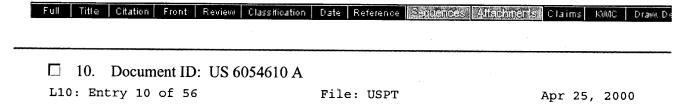
TITLE: Aryl or heteroaryl amides of tetrahydronaphthalene, chroman, thiochroman and 1,2,3,4-tetrahydroquinoline carboxylic acids, having an electron withdrawing substituent in the aromatic or heteroaromatic moiety, having retinoid-like biological activity



US-PAT-NO: 6075163

DOCUMENT-IDENTIFIER: US 6075163 A

TITLE: Process for manufacturing terephthalic acid

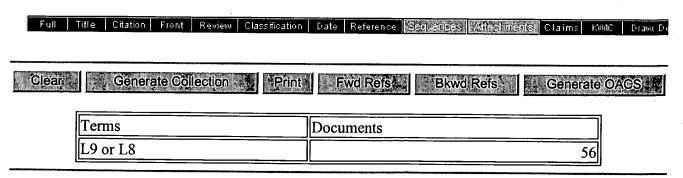


US-PAT-NO: 6054610

DOCUMENT-IDENTIFIER: US 6054610 A

\*\* See image for Certificate of Correction \*\*

TITLE: Method and apparatus for preparing purified terephthalic acid and isophthalic acid from mixed xylenes



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Search Results - Record(s) 11 through 20 of 56 returned.

☐ 11. Document ID: US 6034269 A

Using default format because multiple data bases are involved.

L10: Entry 11 of 56

File: USPT

Mar 7, 2000

US-PAT-NO: 6034269

DOCUMENT-IDENTIFIER: US 6034269 A

TITLE: Process for producing pure carboxylic acids

DATE-ISSUED: March 7, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Turner; John Arthur

North Yorkshire

GB

Woodcock; Duncan Charles

Warrington

GB

US-CL-CURRENT: <u>562/412</u>; <u>562/414</u>, <u>562/485</u>, <u>562/486</u>

| Full | Title | Citation Front Review Classification Date Reference <b>Sequences Attachinents:</b> Claims KMC Draw, De |
|------|-------|--|
|      |       |  |
|      |       |  |
|      | 12.   | Document ID: US 6031128 A  |

L10: Entry 12 of 56

File: USPT

Feb 29, 2000

Oct 26, 1999

US-PAT-NO: 6031128

DOCUMENT-IDENTIFIER: US 6031128 A

TITLE: Process for manufacturing terephthalic acid

| Full | Title | Citation | Front  | Review | Classification | Date | Reference | Sequences | Werennen ? | Claims | KWIC | Draw, De |
|------|-------|----------|--------|--------|----------------|------|-----------|-----------|------------|--------|------|----------|
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| <br> |       |          |        |        |                |      |           |           |            |        |      |          |
|      | 13.   | Docum    | ent ID | : US 5 | 973196 A       |      |           |           |            |        |      |          |

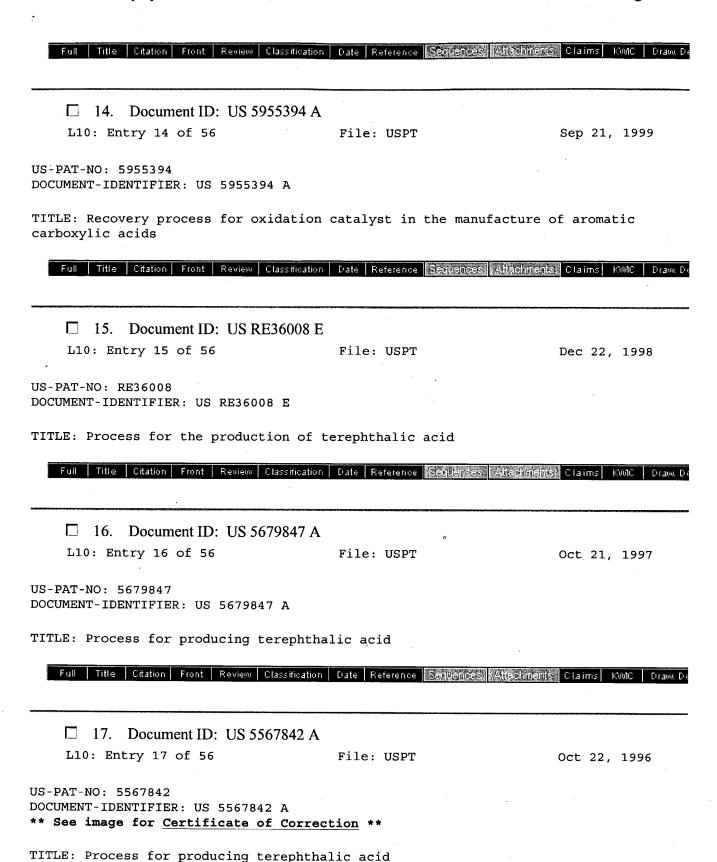
File: USPT

US-PAT-NO: 5973196

DOCUMENT-IDENTIFIER: US 5973196 A

L10: Entry 13 of 56

TITLE: Process for producing purified terephthalic acid



Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 18. Document ID: US 5413681 A

L10: Entry 18 of 56

File: USPT

May 9, 1995

US-PAT-NO: 5413681

DOCUMENT-IDENTIFIER: US 5413681 A

TITLE: Process for the recovery of terephthalic acid and ethylene glycol from poly

(ethylene terephthalate)

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw, Do

☐ 19. Document ID: US 5354898 A

L10: Entry 19 of 56

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

Full Title Citation Front Review Classification Date Reference **Sequences Ettachments** Claims KiMC Draw. De

☐ 20. Document ID: US 5304676 A

L10: Entry 20 of 56

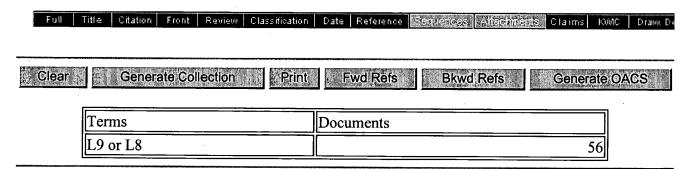
File: USPT

Apr 19, 1994

US-PAT-NO: 5304676

DOCUMENT-IDENTIFIER: US 5304676 A

TITLE: Process for the production of terephthalic acid



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**Search Results** - Record(s) 21 through 30 of 56 returned.

☐ 21. Document ID: US 5200557 A

Using default format because multiple data bases are involved.

L10: Entry 21 of 56

File: USPT

Apr 6, 1993

US-PAT-NO: 5200557

DOCUMENT-IDENTIFIER: US 5200557 A

TITLE: Process for preparation of crude terephthalic acid suitable for reduction to

prepare purified terephthalic acid

DATE-ISSUED: April 6, 1993

INVENTOR-INFORMATION:

Rosenfeld; Jeffrey I.

NAME

CITY

STATE ZIP CODE

COUNTRY

Dec 29, 1992

Gee; John C.

Aurora

ΙL

Schaumburg

IL

Bartos; Thomas M.

Wheaton

IL

US-CL-CURRENT: <u>562</u>/<u>486</u>; <u>562</u>/<u>414</u>, <u>562</u>/<u>487</u>, <u>562</u>/<u>608</u>

| Full Title Citation Front Review Classific | pation Date Reference <b>Securices</b> | Affachments Claims KWIC Draw. D |
|--|--|---------------------------------|
|  |  |                                 |
|  |  |                                 |
| ☐ 22. Document ID: US 5175355              | 5 A                                    |                                 |
| L10: Entry 22 of 56                        | File: USPT                             | Dec 29. 1992                    |

US-PAT-NO: 5175355

DOCUMENT-IDENTIFIER: US 5175355 A

\*\* See image for Certificate of Correction \*\*

TITLE: Improved process for recovery of purified terephthalic acid

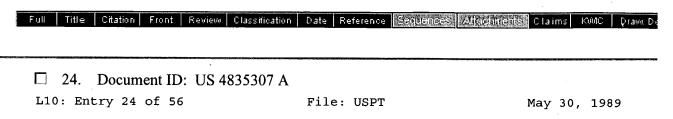
| Full Title Citation Front Review Classificatio | n Date Reference Sequences | Attachments: Claims   KMC   Draw De |
|--|----------------------------|-------------------------------------|
|  |                            |                                     |
| ☐ 23. Document ID: US 5095145 A                | <b>\</b>                   |                                     |
| L10: Entry 23 of 56                            | File: USPT                 | Mar 10, 1992                        |

US-PAT-NO: 5095145

DOCUMENT-IDENTIFIER: US 5095145 A

#### \*\* See image for Certificate of Correction \*\*

TITLE: Preparation of purified terephthalic acid from waste polyethylene terephthalate



US-PAT-NO: 4835307

DOCUMENT-IDENTIFIER: US 4835307 A

\*\* See image for Certificate of Correction \*\*

TITLE: Method and apparatus for controlling the manufacture of terephthalic acid to control the level and variability of the contaminant content and the optical density

| Full Title Citation Front Review | Classification   Date   Reference   <b>Sequenc</b> | ces Attachments Claims KWIC Draw. De |
|----------------------------------|--|--------------------------------------|
|                                  |  |                                      |
| ☐ 25. Document ID: US 4          | 675438 A   |                                      |
| L10: Entry 25 of 56              | File: USPT   | Jun 23, 1987                         |

US-PAT-NO: 4675438

DOCUMENT-IDENTIFIER: US 4675438 A

\*\* See image for Certificate of Correction \*\*

TITLE: Direct continuous flow integration of production and purification of high purity iso- or terephthalic acid

| Full Title Citation Front Review Classification | n   Date   Reference   Sequenc | es Attachments Claims   KMC   Draw, De |
|---|--------------------------------|--|
| ☐ 26. Document ID: US 4625056 A                 | File: USPT                     | Nov 25, 1986                           |

US-PAT-NO: 4625056

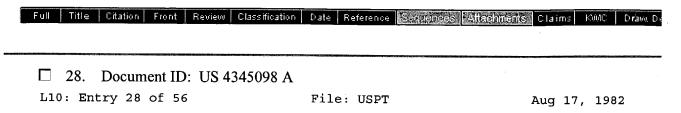
DOCUMENT-IDENTIFIER: US 4625056 A

TITLE: Process for producing benzene carboxylic acids from aromatic material utilizing an aliphatic organic acid agent

| Full Title Citation Front Review Classification | Date   Reference | Sequences Att | achments Claims | KWMC   Draw. De |
|---|------------------|---------------|-----------------|-----------------|
| ☐ 27. Document ID: US 4375553 A                 |                  |               |                 |                 |
| L10: Entry 27 of 56                             | File: USP        | r             | Mar 1,          | 1983            |

DOCUMENT-IDENTIFIER: US 4375553 A

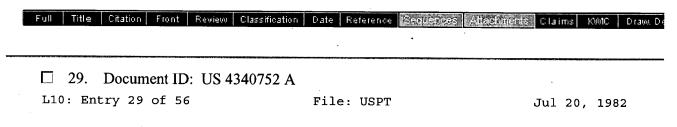
TITLE: Process for producing benzene carboxylic acid salts from aromatic materials



US-PAT-NO: 4345098

DOCUMENT-IDENTIFIER: US 4345098 A

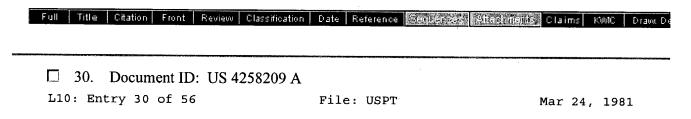
TITLE: Process for producing benzene carboxylic acid salts and their acids



US-PAT-NO: 4340752

DOCUMENT-IDENTIFIER: US 4340752 A

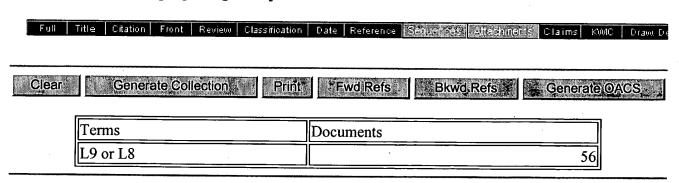
TITLE: Process for the purification of terephthalic acid



US-PAT-NO: 4258209

DOCUMENT-IDENTIFIER: US 4258209 A

TITLE: Process for preparing terephthalic acid



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Search Results - Record(s) 31 through 40 of 56 returned.

☐ 31. Document ID: US 4201871 A

Using default format because multiple data bases are involved.

L10: Entry 31 of 56

File: USPT

May 6, 1980

US-PAT-NO: 4201871

DOCUMENT-IDENTIFIER: US 4201871 A

TITLE: Process for recovering terephthalic acid

DATE-ISSUED: May 6, 1980

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Tanouchi; Masatoshi Nobeoka JP

Takeuchi; Hiroshi Nobeoka JP Ban; Kazuki Nobeoka JP

Asahina; Yoshiyuki Nobeoka JP

US-CL-CURRENT: <u>562/486</u>

Full Title Citation Front Review Classification Date Reference Sequences. Attachments Claims Rout Draw. D

32. Document ID: US 4185073 A

L10: Entry 32 of 56 File: USPT Jan 22, 1980

US-PAT-NO: 4185073

DOCUMENT-IDENTIFIER: US 4185073 A

\*\* See image for Certificate of Correction \*\*

TITLE: Apparatus for iso- or terephthalic acid production in and recovery from benzoic acid-water solvent system

Full Title Citation Front Review Classification Date Reference **Sequences Attechinemiss** Claims KMC Draw De

☐ 33. Document ID: US 4158738 A

L10: Entry 33 of 56

File: USPT

Jun 19, 1979

DOCUMENT-IDENTIFIER: US 4158738 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for the production of fiber-grade terephthalic acid

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Drawl Date 34. Document ID: US 4081464 A
L10: Entry 34 of 56 File: USPT Mar 28, 1978

US-PAT-NO: 4081464

DOCUMENT-IDENTIFIER: US 4081464 A

\*\* See image for Certificate of Correction \*\*

TITLE: Iso- or terephthalic acid production in and recovery from benzoic acid-water solvent system

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachinents | Claims | KMIC | Draw. De

☐ 35. Document ID: US 4053506 A

L10: Entry 35 of 56

File: USPT

Oct 11, 1977

US-PAT-NO: 4053506

DOCUMENT-IDENTIFIER: US 4053506 A

TITLE: Production of fiber-grade terephthalic acid

Full Title Citation Front Review Classification Date Reference Sequences Atlantine Claims KMC Draw Date Reference Sequences Atlantine Claims KMC Date Reference Sequences Atlantine Claims Cla

US-PAT-NO: 3965160

DOCUMENT-IDENTIFIER: US 3965160 A

TITLE: Removal of iron impurities from aromatic carboxylic acids

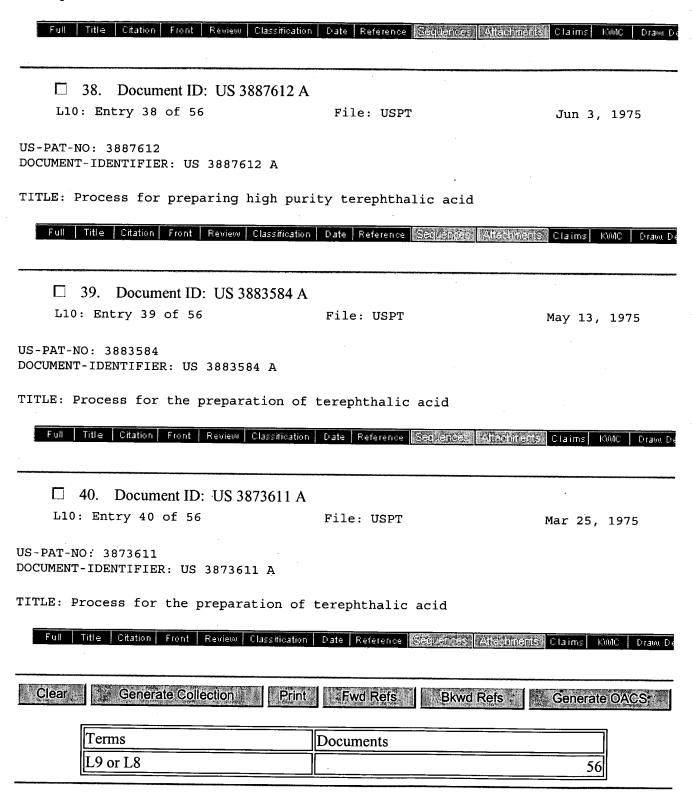
Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De 37. Document ID: US 3887613 A

L10: Entry 37 of 56 File: USPT Jun 3, 1975

US-PAT-NO: 3887613

DOCUMENT-IDENTIFIER: US 3887613 A

TITLE: Thermal purification of terephthalic acid using group I-B, II-B, VIII catalysts



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**Search Results -** Record(s) 41 through 50 of 56 returned.

☐ 41. Document ID: US 3862218 A

Using default format because multiple data bases are involved.

L10: Entry 41 of 56

File: USPT

Jan 21, 1975

US-PAT-NO: 3862218

DOCUMENT-IDENTIFIER: US 3862218 A

TITLE: PURIFICATION OF TEREPHTHALIC ACID BY THERMAL TREATMENT

DATE-ISSUED: January 21, 1975

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Stautzenberger; Adin L.

Corpus Christi

TX

US-CL-CURRENT: 562/486

Full Title Citation Front Review Classification Date Reference Conjuncted Attachments Claims Rout Draw De

42. Document ID: US 3726914 A

L10: Entry 42 of 56 File: USPT Apr 10, 1973

US-PAT-NO: 3726914

DOCUMENT-IDENTIFIER: US 3726914 A

TITLE: PROCESS FOR THE PRODUCTION OF ARYL CARBOXYLIC ACIDS

Full Title Citation Front Review Classification Date Reference Scottences Attachments Claims RMC Draw De 43. Document ID: US 3850983 A

L10: Entry 43 of 56 File: USOC Nov 26, 1974

US-PAT-NO: 3850983

DOCUMENT-IDENTIFIER: US 3850983 A

TITLE: SEPARATION OF TEREPHTHALIC FROM PARATOLUIC ACID FROM SOLUTIONS THEREOF IN WATER AND/OR ACETIC ACID

Record List Display

DATE-ISSUED: November 26, 1974

INVENTOR-NAME: PARK C

US-CL-CURRENT: 562/486; 23/296, 562/487

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw. De

44. Document ID: US 3708532 A

L10: Entry 44 of 56

File: USOC Jan 2, 1973

US-PAT-NO: 3708532

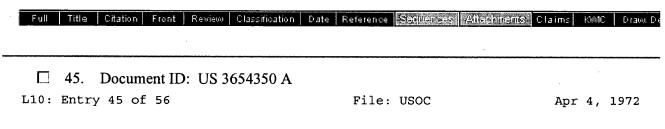
DOCUMENT-IDENTIFIER: US 3708532 A

TITLE: PROCESS FOR THE CONTINUOUS PURIFICATION OF CRUDE TEREPHTHALIC ACID

DATE-ISSUED: January 2, 1973

INVENTOR-NAME: TOKASHIKI M; ICHIKAWA Y

US-CL-CURRENT: 562/486



US-PAT-NO: 3654350

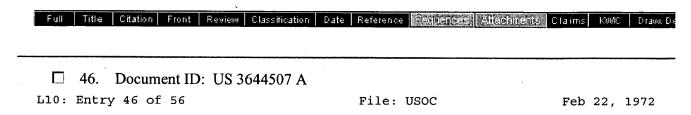
DOCUMENT-IDENTIFIER: US 3654350 A

TITLE: PURIFICATION OF TEREPHTHALIC ACID

DATE-ISSUED: April 4, 1972

INVENTOR-NAME: BLAY JORGE A; WITT ENRIQUE R

US-CL-CURRENT: 562/487



US-PAT-NO: 3644507

DOCUMENT-IDENTIFIER: US 3644507 A

TITLE: THERMAL PURIFICATION OF TEREPHTHALIC ACID USING IODINE OR BROMINE CATALYSTS

DATE-ISSUED: February 22, 1972

INVENTOR-NAME: BLAY JORGE A; WITT ENRIQUE R

US-CL-CURRENT: 562/486, 562/487

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw. De

47. Document ID: US 3592848 A

L10: Entry 47 of 56 File: USOC Jul 13, 1971

US-PAT-NO: 3592848

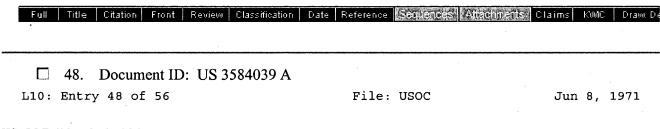
DOCUMENT-IDENTIFIER: US 3592848 A

TITLE: METHOD OF PURIFYING TEREPHTHALIC ACID

DATE-ISSUED: July 13, 1971

INVENTOR-NAME: FRANKEL IRWIN; STEWART GEORGE; WINSTROM LEON O

US-CL-CURRENT: 562/486



US-PAT-NO: 3584039

DOCUMENT-IDENTIFIER: US 3584039 A

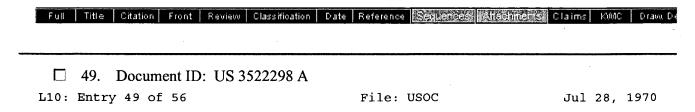
TITLE: FIBER-GRADE TEREPHTHALIC ACID BY CATALYTIC HYDROGEN TREATMENT OF DISSOLVED

IMPURE TEREPHTHALIC ACID

DATE-ISSUED: June 8, 1971

INVENTOR-NAME: MEYER DELBERT H

US-CL-CURRENT: 562/486; 562/487



US-PAT-NO: 3522298

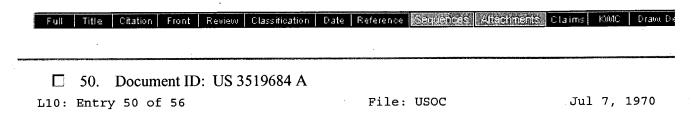
DOCUMENT-IDENTIFIER: US 3522298 A

TITLE: TEREPHTHALIC ACID PURIFICATION PROCESS

DATE-ISSUED: July 28, 1970

INVENTOR-NAME: REMSBERG ALBERT L; BRYANT HOWARD S JR ; DUVAL CLAIBORNE A JR

US-CL-CURRENT: <u>562/487</u>



US-PAT-NO: 3519684

DOCUMENT-IDENTIFIER: US 3519684 A

TITLE: PREPARATION OF AROMATIC DISUBSTITUTED CARBOXYLIC ACIDS

DATE-ISSUED: July 7, 1970

INVENTOR-NAME: CAVE JAMES PATRICK; WITT ENRIQUE ROBERTO ; ZEE-CHENG KWANG YUEN

US-CL-CURRENT: <u>562/417</u>

| Full   T | itle Citation  | Front    | Review | Classificati | on Date | Reference | \$\$4.6p(7) | icija vank | annaik.  | Claims | K004C  | Draw. De |
|----------|--|----------|--------|--------------|---------|-----------|-------------|------------|----------|--------|--------|----------|
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| Clear    | Genera   | ate Coll | ection | "   Pri      | nt:   F | wd Refs   |             | kwd Ref    | s ii iii | Gener  | ate OA | cs       |
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|          | Terms  |          |        |              | Doci    | uments    |             |            |          |        |        |          |
|          | L9 or L8   |          |        |              |         |           |             |            |          |        | 56     | -        |

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**Search Results -** Record(s) 51 through 56 of 56 returned.

☐ 51. Document ID: US 3431243 A

Using default format because multiple data bases are involved.

L10: Entry 51 of 56

File: USOC

Mar 4, 1969

Oct 8, 1968

US-PAT-NO: 3431243

DOCUMENT-IDENTIFIER: US 3431243 A

TITLE: PROCESS FOR PREPARATION OF POLY(ETHYLENE TERPHTHALATE) FROM COMPRESSED

TEREPHTHALIC ACID

DATE-ISSUED: March 4, 1969

INVENTOR-NAME: UNO FUMIO; UNO SEIJI ; KAZAMA SEIJI

US-CL-CURRENT: <u>528/302</u>, <u>528/305</u>, <u>528/308.3</u>, <u>528/308.5</u>, <u>528/308.8</u>, <u>528/309.1</u>,

<u>560/55</u>, <u>560/84</u>, <u>560/85</u>, 560/90, 560/94, 562/480

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw. De 52. Document ID: US 3405171 A

File: USOC

US-PAT-NO: 3405171

L10: Entry 52 of 56

DOCUMENT-IDENTIFIER: US 3405171 A

TITLE: Oxidation of alkylnaphthalenes to naphthalene carboxylic acids

DATE-ISSUED: October 8, 1968

INVENTOR-NAME: ROBERTS EDWARD S; LOUISE CHRISTMANN

US-CL-CURRENT: <u>562/410</u>, <u>549/232</u>, <u>552/208</u>, <u>552/292</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

53. Document ID: US 3102137 A

L10: Entry 53 of 56 File: USOC Aug 27, 1963

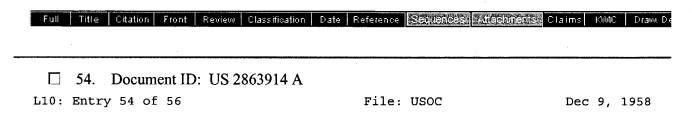
DOCUMENT-IDENTIFIER: US 3102137 A

TITLE: Purification of terephthalic acid

DATE-ISSUED: August 27, 1963

INVENTOR-NAME: WISE ROBERT H; MEYER DELBERT H

US-CL-CURRENT: <u>562/480</u>, <u>562/486</u>, <u>562/487</u>



US-PAT-NO: 2863914

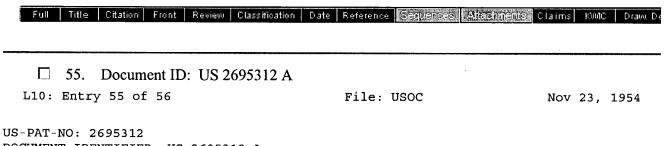
DOCUMENT-IDENTIFIER: US 2863914 A

TITLE: Process for converting phthalic acid into terephthalic acid

DATE-ISSUED: December 9, 1958

INVENTOR-NAME: BERNHARD RAECKE

US-CL-CURRENT: 562/482; 560/98



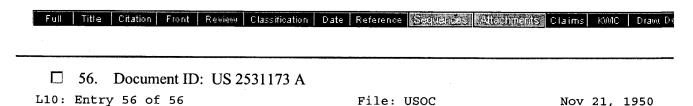
DOCUMENT-IDENTIFIER: US 2695312 A

TITLE: Preparation of aromatic carboxylic acids

DATE-ISSUED: November 23, 1954

INVENTOR-NAME: TOLAND JR WILLIAM G

US-CL-CURRENT: <u>562/411</u>; <u>562/483</u>, <u>564/152</u>, <u>564/156</u>, <u>568/800</u>



DOCUMENT-IDENTIFIER: US 2531173 A

TITLE: Preparation of terephthalic acid

DATE-ISSUED: November 21, 1950

INVENTOR-NAME: TOLAND JR WILLIAM G

US-CL-CURRENT: 562/412

| Full Title Citation Front Review Cla   | assification Date Reference <b>Sequences Attachments</b> Claims KMC Draw |
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